Author Index to Volume 173

Ahlrichs, R., see J. Sauer 173 (1990) 26
Ahlrichs, R., see C. Kölmel 173 (1990) 151
Alimi, R., see R.B. Gerber 173 (1990) 393
Andreoni, W., D. Scharf and P. Giannozzi, Low-temperature structures of C_4 and C_{10} from the Car–Parrinello method: singlet states 173 (1990) 449
Angerhofer, A., see V. Aust 173 (1990) 439
Arai, T., see Y. Kuriyama 173 (1990) 253
Archibong, E.F. and A.J. Thakkar, Hyperpolarizabilities and polarizabilities of Li^- and B^+: finite-field coupled-cluster calculations 173 (1990) 579
Asaf, U., see J. Meyer 173 (1990) 384
Astaldi, C., see K. Jacobi 173 (1990) 97
Atkinson, J.B., see W. Kedzierski 173 (1990) 282
Aust, V., A. Angerhofer, P.H. Parot, C.A. Violette and H.A. Frank, Temperature-dependent ADMR on borohydride-treated reaction centers of *Rhodobacter sphaeroides* R26 173 (1990) 439
Azumi, T., see M. Terazima 173 (1990) 327

Badola, P., see S.S. Tambe 173 (1990) 67
Banichevich, A., S.D. Peyerimhoff and F. Grein, Ab initio potential surfaces for ozone dissociation in its ground and various electronically excited states 173 (1990) 1
Bär, M., see C. Kölmel 173 (1990) 151
Barnes, C.J., see M. Lindroos 173 (1990) 92
Bauder, A., see Th. Brupbacher 173 (1990) 435
Bauschlicher Jr., C.W. and S.R. Langhoff, Theoretical study of the C–H bond dissociation energy of C_2H 173 (1990) 367
Beauregard, J.N. and H.R. Mayne, The scattering of van der Waals dimers from crystal surfaces. An extension of the binary collision model 173 (1990) 189
Bencivenni, L., see F. Ramondo 173 (1990) 562
Bertolo, M., see K. Jacobi 173 (1990) 97
Birkholz, M., see K.-M. Schindler 173 (1990) 513
Biskupič, S., V. Kvasnička and R. Klein, Direct calculation of vertical ionization potentials by the coupled-cluster method 173 (1990) 33
Bittl, R. and K. Schulten, Biradical spin dynamics with distance-dependent exchange interaction and electron transfer efficiency 173 (1990) 387
Blasse, G. and L.H. Brixner, Ultraviolet emission from ABO_4-type niobates, tantalates and tungstates 173 (1990) 409
Boldyrev, A.I., see C. Kölmel 173 (1990) 151
Braun, D., E. Gallhuber and H. Yersin, Zeeman splittings of the two lowest excited states of $Ru(bpy)_3(PF_6)_2$, Chem. Phys. Letters 171 (1990) 122. Erratum 173 (1990) 132
Brenton, A.G., see A.R. Lee 173 (1990) 230
Brixner, L.H., see G. Blasse 173 (1990) 409

Brocklehurst, B., A. Hopkirk and I.H. Munro, Luminescence of DNA excited in the vacuum ultraviolet 173 (1990) 129
Brupbacher, Th. and A. Bauder, Rotational spectrum and dipole moment of the benzene–argon van der Waals complex 173 (1990) 435
Bulatov, A. and V. Fetisov, Relaxation to the quasistationary mode of nucleation 173 (1990) 187
Burkett, H.D., S.D. Worley and C.H. Dai, An infrared study of the hydrogenation of carbon monoxide and carbon dioxide at high pressure over Pd/La_2O_3 173 (1990) 430

Carlile, C.J., see M. Prager 173 (1990) 524
Chakravarty, C. and D.C. Clary, Electronic spectrum of the Ar–OH complex: effect of isotopic substitution and temperature 173 (1990) 541
Chan, W.-T. and J.D. Goddard, Energies, structures, and vibrational frequencies of FCS and ClCS 173 (1990) 139
Chang, T.-L. and H.C. Cheung, A model for molecules with twisted intramolecular charge transfer characteristics: solvent polarity effect on the nonradiative rates of dyes in a series of water–ethanol mixed solvents 173 (1990) 343
Chaudhuri, R., see S.K. Mukhopadhyay 173 (1990) 181
Chen, C., see S. Koda 173 (1990) 225
Chen, J.-C., see M.-S. Tsai 173 (1990) 485
Cheung, H.C., see T.-L. Chang 173 (1990) 343
Choi, W.Y. and H. Kang, Low energy threshold behavior of He^+, Ne^+, and Ar^+ ion penetration into a graphite (0001) surface 173 (1990) 316
Clary, D.C., see C. Chakravarty 173 (1990) 541
Colussi, A.J., see M.J. Molina 173 (1990) 310
Costa, S.M.B., see P.P. Levin 173 (1990) 277
Cox, R.A., J. Munk, O.J. Nielsen, P. Pagsberg and E. Ratajczak, Ultraviolet absorption spectra and kinetics of acetonyl and acetonylperoxy radicals 173 (1990) 206
Curl, R.F., see K.G. Unfried 173 (1990) 337
Czuchaj, E., F. Rebentrost, H. Stoll and H. Preuss, Semi-empirical calculation of the potential curves of NaNe, Na^+Ne and Na^-Ne 173 (1990) 573

Dabbagh, G., see R. Tycko 173 (1990) 461
Dai, C.H., see H.D. Burkett 173 (1990) 430
Datta, S.N. and S. Priyadarshy, Semiempirical quantum chemical calculation on the chlorophyll–water system and determination of excitonic characteristics of a model chloroplast 173 (1990) 360
Davis, M.E., see C. Zheng 173 (1990) 246
De Backer, M.G., F.X. Sauvage and J.L. Dye, Interaction of light with $Na^+C222.Na^-$. A laser flash photolysis and EPR investigation 173 (1990) 291
Domke, M., C. Xue, A. Puschmann, T. Mandel, E. Hudson, D.A. Shirley and G. Kaindl, Carbon and oxygen K-edge photoionization of the CO molecule 173 (1990) 122
Donaldson, D.J., see S.P. Sapers 173 (1990) 257
Dudde, R., see M.L.M. Rocco 173 (1990) 87
Durup, J., Angular momentum conservation in hemiquantal dynamics 173 (1990) 537
Dye, J.L., see M.G. De Backer 173 (1990) 291

Enos, C.S., see A.R. Lee 173 (1990) 230

Erkoç, Ş., Empirical many-body potential energy function for silver and gold: application to microclusters 173 (1990) 57

Facelli, J.C., New theoretical results on the CO...cyclobutadiene complex 173 (1990) 21
Feng, Y., see C.A. Fyfe 173 (1990) 211
Fetisov, V., see A. Bulatov 173 (1990) 187
Fishman, I.M., see V.A. Schneidman 173 (1990) 331
Francisco, J.S., see Y. Zhao 173 (1990) 551
Frank, H.A., see V. Aust 173 (1990) 439
Fyfe, C.A., H. Grondey, Y. Feng and G.T. Kokotailo, Investigation of the three-dimensional Si–O–Si connectivities in the monoclinic form of zeolite ZSM-5 by two-dimensional ^{29}Si INADEQUATE experiments 173 (1990) 211

Gallhuber, E., see D. Braun 173 (1990) 132
García, N., see R. García 173 (1990) 44
García, R. and N. García, Electron conductance in organic chains: why are STM experiments possible on bare biological samples? 173 (1990) 44
Gemein, B. and S.D. Peyerimhoff, Ab initio study of the $HeAr^+$ ion: potential energy curves for the lowest states, spin–orbit coupling and predissociation rates 173 (1990) 7
Geng, P., see K. Jacobi 173 (1990) 97
Gerber, R.B. and R. Alimi, Quantum effects in molecular reaction dynamics in solids: photodissociation of HI in solid Xe 173 (1990) 393
Giannozzi, P., see W. Andreoni 173 (1990) 449
Glass, G.P., see K.G. Unfried 173 (1990) 337
Goddard, J.D., see W.-T. Chan 173 (1990) 139
Gordon, K.C. and J.J. McGarvey, Resonance Raman evidence for photogeneration of a class II mixed-valence excited state of a binuclear copper(I) complex in solution 173 (1990) 443
Grandinetti, F., see F. Ramondo 173 (1990) 562
Grein, F., see A. Banichevich 173 (1990) 1
Grondey, H., see C.A. Fyfe 173 (1990) 211
Gryczynski, I., see J.R. Lakowicz 173 (1990) 319
Gutman, I., J.W. Kennedy and L.V. Quintas, Wiener numbers of random benzenoid chains 173 (1990) 403

Hansen, W., see K. Jacobi 173 (1990) 97
Häser, M., see J. Sauer 173 (1990) 26
Hauser, A., Excited-state lifetimes of $[Fe(bipy)_3]^{2+}$ and $[Fe(phen)_3]^{2+}$ 173 (1990) 507
Head-Gordon, M. and J.A. Pople, Internal rotation in conjugated molecules: nitroethylene and nitrobenzene 173 (1990) 585
Helgaker, T., E. Uggerud and H.J.Aa. Jensen, Integration of the classical equations of motion on ab initio molecular potential energy surfaces using gradients and Hessians: Application to translational energy release upon fragmentation 173 (1990) 145
Henderson, J.R. and J. Tennyson, All the vibrational bound states of H_3^+ 173 (1990) 133
Hopkirk, A., see B. Brocklehurst 173 (1990) 129
Horn, H., see J. Sauer 173 (1990) 26
Hoshi, M., see K. Kikuchi 173 (1990) 421
Hu, P., see M. Lindroos 173 (1990) 92
Hudson, E., see M. Domke 173 (1990) 122

Huppert, D., see V. Ittah 173 (1990) 496
Hwang, W.-A., see M.-S. Tsai 173 (1990) 485

Ikeda, H., see K. Kikuchi 173 (1990) 421
Ikeda, R., T. Tamura and M. Yamashita, Solid-state ^{13}C high-resolution NMR in one-dimensional halogen-bridged nickel complexes and palladium(II)–palladium(IV) mixed-valence complexes 173 (1990) 466
Imaeda, K., T. Mitani, C. Nakano, H. Inokuchi and G. Saito, Infrared spectra of tetrakis(alkylthio)tetrathiafulvalenes 173 (1990) 298
Inokuchi, H., see K. Imaeda 173 (1990) 298
Ishikawa, M., Solvation effect on the picosecond fluorescence lifetimes and anisotropy decays of a hydrogen-bonded biologically active furo-coumarin derivative: 4,5′,8-trimethylpsoralen 173 (1990) 76
Itoh, K., see M. Okamoto 173 (1990) 265
Ittah, V. and D. Huppert, Static and dynamic electrolyte effects on excited large dipole solvation: high dielectric constant solvents 173 (1990) 496

Jacobi, K., M. Bertolo, P. Geng, W. Hansen and C. Astaldi, H_2O-induced quenching of the negative-ion resonance scattering for N_2 physisorbed on Al(111) 173 (1990) 97
Jacobsen, S.M., see R.J. Tonucci 173 (1990) 456
Jensen, H.J.Aa., see T. Helgaker 173 (1990) 145
Johnson, M.L., see J.R. Lakowicz 173 (1990) 319
Joshi, H.C., H.B. Tripathi, T.C. Pant and D.D. Pant, Hydrogen-bonding effect on the dual emission of salicylic acid 173 (1990) 83

Kaindl, G., see M. Domke 173 (1990) 122
Kang, H., see W.Y. Choi 173 (1990) 316
Kanno, H., see M. Terazima 173 (1990) 327
Kar, T., see A.B. Sannigrahi 173 (1990) 569
Kasha, M., see D.A. Parthenopoulos 173 (1990) 303
Katoh, Y., see H. Minoura 173 (1990) 220
Kedzierski, W., J. Supronowicz, J.B. Atkinson and L. Krause, Laser-induced $^1\Sigma_u^+ \leftarrow {}^3\Pi_g$ excitation spectrum of Zn_2 173 (1990) 282
Kennedy, J.W., see I. Gutman 173 (1990) 403
Kenwright, A.M. and K.J. Packer, On T_1 cancellation schemes in Goldman–Shen-type experiments 173 (1990) 471
Khan, S.U.M. and Z.Y. Zhou, Slopes of the energy surface of transition metal ions in solution: a molecular orbital calculation 173 (1990) 37
Kikuchi, K., T. Niwa, Y. Takahashi, H. Ikeda, T. Miyashi and M. Hoshi, Evidence of exciplex formation in acetonitrile 173 (1990) 421
King, D.A., see M. Lindroos 173 (1990) 92
Kinoshita, T., see M. Okamoto 173 (1990) 265
Kiriakova, N.V., see A.G. Vitukhnovsky 173 (1990) 521
Klein, R., see S. Biskupič 173 (1990) 33
Klein, R., see A. Vizcarra-Rendón 173 (1990) 397
Koch, E.-E., see M.L.M. Rocco 173 (1990) 87
Koch, S. and G.K. Moortgat, Rate and mechanism of the reaction $Cl + CH_3COOH$ 173 (1990) 531

Koda, S., S. Suga and C. Chen, Anomalously high vibrational excitation in the product OH from the reaction of $O(^1D)$ with tetramethylsilane 173 (1990) 225
Kokotailo, G.T., see C.A. Fyfe 173 (1990) 211
Kölmel, C., G. Palm, R. Ahlrichs, M. Bär and A.I. Boldyrev, Ab initio study of structure, stability and ionization potentials of the anions PF_6^- and $P_2F_{11}^-$ 173 (1990) 151
Koshi, M., F. Tamura and H. Matsui, Rate constants for the reactions of hydrogen atoms with SiH_nF_{4-n} ($n=4,3,2$) 173 (1990) 235
Kozankiewicz, B., see O. Morawski 173 (1990) 412
Kozankiewicz, B., Thermal-delayed fluorescence of pyromellitic dianhydride–anthracene trap in charge-transfer pyromellitic dianhydride–phenanthrene host crystal 173 (1990) 417
Krause, J.L., see T. Seideman 173 (1990) 169
Krause, L., see W. Kedzierski 173 (1990) 282
Kulkarni, B.D., see S.S. Tambe 173 (1990) 67
Kunst, M., see K.-M. Schindler 173 (1990) 513
Kuriyama, Y., T. Arai, H. Sakuragi and K. Tokumaru, Direct observation of cis-to-trans conversion of olefin radical cations. Electron transfer-induced isomerization of stilbene derivatives 173 (1990) 253
Kuśba, J., see J.R. Lakowicz 173 (1990) 319
Kvasnička, V., see S. Biskupič 173 (1990) 33

Lakowicz, J.R., J. Kuśba, W. Wiczk, I. Gryczynski and M.L. Johnson, End-to-end diffusion of a flexible bichromophoric molecule observed by intramolecular energy transfer and frequency-domain fluorometry 173 (1990) 319
Langhoff, S.R., see C.W. Bauschlicher Jr. 173 (1990) 367
Lee, A.R., C.S. Enos and A.G. Brenton, Electronic and vibrational excitation of N_2 by O^+ and N^+ 173 (1990) 230
Lee, T.-S., see M.-S. Tsai 173 (1990) 485
Legon, A.C., B.P. Roberts and A.L. Wallwork, Rotational spectra and geometries of the gas-phase dimers (CH_4,HF) and (CH_4,HCl) 173 (1990) 107
Leszczyński, J., Theoretical evaluation of new nucleic acid bases. Ab initio study on tautomerism of 2,6-diaminopyrimidine (κ-base) 173 (1990) 371
Levin, P.P., L.F. Vieira Ferreira and S.M.B. Costa, Diffuse-reflectance laser photolysis studies of geminate recombination kinetics of triplet radical pairs adsorbed on microcrystalline cellulose 173 (1990) 277
Li, Z.-H., see H. Sekiya 173 (1990) 285
Lindroos, M., C.J. Barnes, P. Hu and D.A. King, The termination and multilayer relaxation at the Co{10$\bar{1}$0} surface 173 (1990) 92

Mandel, T., see M. Domke 173 (1990) 122
Marian, C.M., On the dependence of correlation and relativity: The electron affinity of the copper atom 173 (1990) 175
Matsui, H., see M. Koshi 173 (1990) 235
Matsui, M., see H. Minoura 173 (1990) 220
Mayne, H.R., see J.N. Beauregard 173 (1990) 189
McCammon, J.A., see C. Zheng 173 (1990) 246
McFadden, D.L., see C. Tsai 173 (1990) 241
McGarvey, J.J., see K.C. Gordon 173 (1990) 443

Medina-Noyola, M., see A. Vizcarra-Rendón 173 (1990) 397
Meerts, W.L., see E. Zwart 173 (1990) 115
Mehring, M., see S. Zhang 173 (1990) 481
Meyer, J., R. Reininger and U. Asaf, Spectral shift of autoionizing high-*n* Rydberg states of CH_3I in dense argon: A photoionization study 173 (1990) 384
Miller, W.H., see J.Z.H. Zhang 173 (1990) 489
Minoura, H., Y. Katoh, T. Sugiura, Y. Ueno, M. Matsui and K. Shibata, Photoelectrochemical analyses of photocatalytic reactions of azobenzene on TiO_2 powder 173 (1990) 220
Mitani, T., see K. Imaeda 173 (1990) 298
Mittal, J.P., see H. Pal 173 (1990) 354
Miyashi, T., see K. Kikuchi 173 (1990) 421
Moc, J., J.M. Rudziński and H. Ratajczak, Ab initio study of the GeH_5 species 173 (1990) 557
Molina, L.T., see M.J. Molina 173 (1990) 310
Molina, M.J., A.J. Colussi, L.T. Molina, R.N. Schindler and T.-L. Tso, Quantum yield of chlorine-atom formation in the photodissociation of chlorine peroxide (ClOOCl) at 308 nm 173 (1990) 310
Møller, P.J., see M.-C. Wu 173 (1990) 590
Moortgat, G.K., see S. Koch 173 (1990) 531
Morawski, O., B. Kozankiewicz, J. Prochorow and R. Radomski, Aggregation-controlled fluorescence of acridine in a crystalline matrix of anthracene 173 (1990) 412
Mori, A., see H. Sekiya 173 (1990) 285
Moro, G.J., About the coupling between librational motions and conformational transitions in chain molecules 173 (1990) 503
Muckerman, J.T., Some useful discrete variable representations for problems in time-dependent and time-independent quantum mechanics 173 (1990) 200
Mukherjee, D., see S.K. Mukhopadhyay 173 (1990) 181
Mukherjee, T., see H. Pal 173 (1990) 354
Mukhopadhyay Jr., D., see S.K. Mukhopadhyay 173 (1990) 181
Mukhopadhyay, S.K., R. Chaudhuri, D. Mukhopadhyay Jr. and D. Mukherjee, A comparative study of core-extensive and core–valence-extensive coupled-cluster theories for energy differences: excitation energies 173 (1990) 181
Munk, J., see R.A. Cox 173 (1990) 206
Munro, I.H., see B. Brocklehurst 173 (1990) 129

Nakano, C., see K. Imaeda 173 (1990) 298
Nicolaides, C.A. and P. Valtazanos, Inversion of molecular spectra by solid environments 173 (1990) 195
Nielsen, O.J., see R.A. Cox 173 (1990) 206
Nishimura, Y., see H. Sekiya 173 (1990) 285
Niwa, T., see K. Kikuchi 173 (1990) 421

Ogata, T., see H. Uchida 173 (1990) 103
Okamoto, M., Y. Teki, T. Takui, T. Kinoshita and K. Itoh, Spin density distribution of an organic high-spin molecule, biphenyl-3,3′-bis(phenylmethylene), as studied by ^{1}H-ENDOR and a UHF Hubbard calculation 173 (1990) 265
Ou, M.-C., see M.-S. Tsai 173 (1990) 485

Packer, K.J., see A.M. Kenwright 173 (1990) 471

Pagsberg, P., see R.A. Cox 173 (1990) 206
Pal, H., D.K. Palit, T. Mukherjee and J.P. Mittal, Interaction of the excited singlet state of disubstituted anthraquinones with aromatic hydrocarbons: a fluorescence-quenching study 173 (1990) 354
Palit, D.K., see H. Pal 173 (1990) 354
Palm, G., see C. Kölmel 173 (1990) 151
Pant, D.D., see H.C. Joshi 173 (1990) 83
Pant, T.C., see H.C. Joshi 173 (1990) 83
Parot, P.H., see V. Aust 173 (1990) 439
Parthenopoulos, D.A. and M. Kasha, Ground state anion formation and picosecond excitation dynamics of 3-hydroxyflavone in formamide 173 (1990) 303
Petty, M.C., see A.G. Vitukhnovsky 173 (1990) 425
Peyerimhoff, S.D., see A. Banichevich 173 (1990) 1
Peyerimhoff, S.D., see B. Gemein 173 (1990) 7
Pople, J.A., see M. Head-Gordon 173 (1990) 585
Prager, M. and C.J. Carlile, The rotational potential of NH_3 in rare gases: a neutron scattering study 173 (1990) 524
Preuss, H., see E. Czuchaj 173 (1990) 573
Priyadarshy, S., see S.N. Datta 173 (1990) 360
Prochorow, J., see O. Morawski 173 (1990) 412
Puschmann, A., see M. Domke 173 (1990) 122

Quintas, L.V., see I. Gutman 173 (1990) 403

Radomski, R., see O. Morawski 173 (1990) 412
Ramondo, F., L. Bencivenni and F. Grandinetti, The geometries and vibrational patterns of $LiClO_3$ and $NaClO_3$ ion pairs: an ab initio SCF study 173 (1990) 562
Ratajczak, E., see R.A. Cox 173 (1990) 206
Ratajczak, H., see J. Moc 173 (1990) 557
Rebentrost, F., see E. Czuchaj 173 (1990) 573
Reininger, R., see J. Meyer 173 (1990) 384
Roberts, B.P., see A.C. Legon 173 (1990) 107
Rocco, M.L.M., R. Dudde and E.-E. Koch, Angle-resolved photoemission from cytosine adsorbed on Cu(110) 173 (1990) 87
Rosenkrantz, M.E., Ab initio study of ArH, ArH^+, Ar_2H, Ar_2H^+, and Ar_4H^+ 173 (1990) 378
Rotman, S.R., Modeling non-radiative energy transfer with multiple mechanisms in solid-state materials 173 (1990) 349
Rudziński, J.M., see J. Moc 173 (1990) 557

Sadlej, A.J., see M. Urban 173 (1990) 157
Saito, G., see K. Imaeda 173 (1990) 298
Sakuragi, H., see Y. Kuriyama 173 (1990) 253
Sannigrahi, A.B. and T. Kar, Three-center bond index 173 (1990) 569
Sapers, S.P. and D.J. Donaldson, A REMPI investigation of methyl iodide Rydberg state predissociation 173 (1990) 257
Sasaki, K., see H. Sekiya 173 (1990) 285

Sauer, J., H. Horn, M. Häser and R. Ahlrichs, Formation of hydronium ions on Brønsted sites in zeolitic catalysts: a quantum-chemical ab initio study 173 (1990) 26
Sauvage, F.X., see M.G. De Backer 173 (1990) 291
Scaiano, J.C. and J.-L. Shi, Comparative study of the kinetic behavior of ground and excited state radical pairs in micellar solution 173 (1990) 271
Scharf, D., see W. Andreoni 173 (1990) 449
Schindler, K.-M., M. Birkholz and M. Kunst, Charge carrier kinetics in $MoSe_2$ and MoS_2 powders 173 (1990) 513
Schindler, R.N., see M.J. Molina 173 (1990) 310
Schneidman, V.A. and I.M. Fishman, Nucleation of a new phase for particles with finite lifetimes 173 (1990) 331
Schulten, K., see R. Bittl 173 (1990) 387
Seideman, T., J.L. Krause and M. Shapiro, Optically assisted $H+H_2$ exchange reaction and reactive scattering resonances 173 (1990) 169
Sekiya, H., K. Sasaki, Y. Nishimura, Z.-H. Li, A. Mori and H. Takeshita, $^{18}O/^{16}O$ isotope effect on the laser fluorescence excitation spectrum of jet-cooled tropolone 173 (1990) 285
Shapiro, M., see T. Seideman 173 (1990) 169
Shi, J.-L., see J.C. Scaiano 173 (1990) 271
Shibata, K., see H. Minoura 173 (1990) 220
Shirley, D.A., see M. Domke 173 (1990) 122
Slanina, Z., An estimation of the energy difference between the linear and rhombic structures of $C_4(g)$ 173 (1990) 164
Sloth, P. and T.S. Sørensen, Monte Carlo calculations of chemical potentials in ionic fluids by application of Widom's formula: correction for finite-system effects 173 (1990) 51
Sluch, M.I., see A.G. Vitukhnovsky 173 (1990) 425
Smith, I.W.M. and J.F. Warr, Vibrational relaxation of $C_2H_2(\nu_3, \nu_2+\nu_4+\nu_5)$ in self-collisions and in collisions with the noble gases 173 (1990) 70
Sokolov, I.M., see A.G. Vitukhnovsky 173 (1990) 521
Sørensen, T.S., see P. Sloth 173 (1990) 51
Stoll, H., see E. Czuchaj 173 (1990) 573
Suga, S., see S. Koda 173 (1990) 225
Sugiura, T., see H. Minoura 173 (1990) 220
Supronowicz, J., see W. Kedzierski 173 (1990) 282

Tada, T., Ab initio MO studies on disilane radical anion 173 (1990) 15
Takahashi, Y., see K. Kikuchi 173 (1990) 421
Takeshita, H., see H. Sekiya 173 (1990) 285
Takui, T., see M. Okamoto 173 (1990) 265
Tambe, S.S., P. Badola and B.D. Kulkarni, Selectivity behaviour of a multi-step reaction on a catalyst modelled as a DLA fractal surface 173 (1990) 67
Tamura, F., see M. Koshi 173 (1990) 235
Tamura, T., see R. Ikeda 173 (1990) 466
Teki, Y., see M. Okamoto 173 (1990) 265
Tennyson, J., see J.R. Henderson 173 (1990) 133
Terazima, M., H. Kanno and T. Azumi, Measurement of the quantum yield of triplet formation (ϕ_{ISC}) in a polymer matrix by the time-resolved thermal lens method: Excitation wavelength dependence of ϕ_{ISC} of N-methyl-*p*-nitroaniline 173 (1990) 327

Ter Meulen, J.J., see E. Zwart 173 (1990) 115
Thakkar, A.J., see E.F. Archibong 173 (1990) 579
Tokumaru, K., see Y. Kuriyama 173 (1990) 253
Tonucci, R.J., S.M. Jacobsen and W.M. Yen, Observation of the spin–orbit components of the $^3B_{2g}(^3A_{2g})$ ground state in the system $Ni^{2+}:MgF_2$ by fluorescence line narrowing 173 (1990) 456
Traytak, S.D., The use of fractional-order derivatives for determination of the time-dependent rate constant 173 (1990) 63
Tripathi, H.B., see H.C. Joshi 173 (1990) 83
Tsai, C. and D.L. McFadden, Gas-phase atom–radical kinetics of N and O atom reactions with CF and CF_2 radicals 173 (1990) 241
Tsai, M.-S., M.-C. Ou, I.-C. Yang, J.-C. Chen, W.-A. Hwang and T.-S. Lee, A comment on time-reversal symmetry of chiral systems 173 (1990) 485
Tso, T.-L., see M.J. Molina 173 (1990) 310
Tycko, R. and G. Dabbagh, Measurement of nuclear magnetic dipole–dipole couplings in magic angle spinning NMR 173 (1990) 461

Uchida, H., T. Ogata and H. Yoneyama, Preparation of size-quantized indium phosphide in zeolite cages 173 (1990) 103
Ueno, Y., see H. Minoura 173 (1990) 220
Uggerud, E., see T. Helgaker 173 (1990) 145
Unfried, K.G., G.P. Glass and R.F. Curl, Thermal deNOx: no HNO at room temperature 173 (1990) 337
Urban, M. and A.J. Sadlej, The nuclear quadrupole moment of Li: refined calculations of electric field gradients in LiH, LiF, and LiCl 173 (1990) 157

Valtazanos, P., see C.A. Nicolaides 173 (1990) 195
Vieira Ferreira, L.F., see P.P. Levin 173 (1990) 277
Violette, C.A., see V. Aust 173 (1990) 439
Vitukhnovsky, A.G., M.I. Sluch, J.G. Warren and M.C. Petty, The fluorescence of perylene-doped Langmuir–Blodgett films 173 (1990) 425
Vitukhnovsky, A.G., N.V. Kiriakova and I.M. Sokolov, The $A+A\rightarrow 0$ reaction on a critical percolation system 173 (1990) 521
Vizcarra-Rendón, A., M. Medina-Noyola and R. Klein, Electrolyte friction on non-spherical polyions 173 (1990) 397

Wallwork, A.L., see A.C. Legon 173 (1990) 107
Warr, J.F., see I.W.M. Smith 173 (1990) 70
Warren, J.G., see A.G. Vitukhnovsky 173 (1990) 425
Wiczk, W., see J.R. Lakowicz 173 (1990) 319
Worley, S.D., see H.D. Burkett 173 (1990) 430
Wu, M.-C. and P.J. Møller, UPS and HREELS studies of early stages of adsorption of CuCl on $TiO_2(110)$, Chem. Phys. Letters 171 (1990) 136. Erratum 173 (1990) 590
Wu, X., see S. Zhang 173 (1990) 481

Xue, C., see M. Domke 173 (1990) 122

Yamashita, M., see R. Ikeda 173 (1990) 466
Yang, D. and C. Ye, Raman magnetic resonance in an AX system 173 (1990) 216

Yang, I.-C., see M.-S. Tsai 173 (1990) 485
Ye, C., see D. Yang 173 (1990) 216
Yeager, D.L., see J.Z.H. Zhang 173 (1990) 489
Yen, W.M., see R.J. Tonucci 173 (1990) 456
Yersin, H., see D. Braun 173 (1990) 132
Yip, P.F., Cross peaks without a mixing period 173 (1990) 476
Yoneyama, H., see H. Uchida 173 (1990) 103

Zhang, J.Z.H., D.L. Yeager and W.H. Miller, 3D quantum scattering calculations of the reaction $He+H_2^+ \rightarrow HeH^+ H$ for total angular momentum $J=0$ 173 (1990) 489
Zhang, S., X. Wu and M. Mehring, Elimination of ringing effects in multiple-pulse sequences 173 (1990) 481
Zhao, Y. and J.S. Francisco, An examination of the heats of formation for HFCO and HClCO molecules 173 (1990) 551
Zheng, C., M.E. Davis and J.A. McCammon, Electric-field distribution inside the bacterial photosynthetic reaction center of *Rhodopseudomonas viridis* 173 (1990) 246
Zhou, Z.Y., see S.U.M. Khan 173 (1990) 37
Zwart, E., J.J. ter Meulen and W.L. Meerts, The submillimeter rotation tunneling spectrum of $(D_2O)_2$ 173 (1990) 115